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APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,998	10/635,998 08/07/2003		Timothy A. Booth	03-328	1565
719	7590 11	1/08/2004	•	EXAMINER	
CATERPIL	LAR INC.	WRIGHT, DIRK			
100 N.E. AD PATENT DE	AMS STREET PT.	ART UNIT _	PAPER NUMBER		
	616296490			3681	
				DATE MAILED: 11/08/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	ZO.			
		10/635,998	BOOTH ET AL.	lo,			
Office Act	tion Summary	Examiner	Art Unit				
	•	Dirk Wright	3681				
The MAILING I Period for Reply	DATE of this communication	appears on the cover sh	eet with the correspondence ac	idress			
THE MAILING DATE - Extensions of time may be a after SIX (6) MONTHS from - If the period for reply specification of the specification	cified above, the maximum statutory per et or extended period for reply will, by sta ffice later than three months after the m	N. R 1.136(a). In no event, however, reply within the statutory minimur riod will apply and will expire SIX (atule, cause the application to be	may a reply be timely filed n of thirty (30) days will be considered time (6) MONTHS from the mailing date of this of the mailing date of this of the ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to	communication(s) filed on _						
2a) This action is F	☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this appli	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accor	dance with the practice und	er <i>Ex parte</i> Quayle, 193	5 C.D. 11, 453 O.G. 213.				
Disposition of Claims							
4)⊠ Claim(s) <u>1-17</u> is	s/are pending in the applicat	tion.					
4a) Of the abov	e claim(s) is/are with	drawn from consideratio	on.				
5)⊠ Claim(s) <u>12-17</u>	is/are allowed.						
6)⊠ Claim(s) <u>1-3,5</u> a	and 7-10 is/are rejected.						
7)⊠ Claim(s) <u>4,6 an</u>	d 11 is/are objected to.						
8) Claim(s)	are subject to restriction an	nd/or election requireme	nt.				
Application Papers							
9)☐ The specificatio	n is objected to by the Exan	niner.					
10) The drawing(s)	filed on is/are: a)	accepted or b) object	ed to by the Examiner.				
			abeyance. See 37 CFR 1.85(a).				
Replacement dra	awing sheet(s) including the co	rrection is required if the di	rawing(s) is objected to. See 37 C	FR 1.121(d).			
11) The oath or dec	laration is objected to by the	e Examiner. Note the at	tached Office Action or form P	TO-152.			
Priority under 35 U.S.C.	. § 119						
12) Acknowledgmer	nt is made of a claim for fore	eign priority under 35 U.	S.C. § 119(a)-(d) or (f).				
<i>,</i> —	me * c)☐ None of:	, , , , , , , , , , , , , , , , , , ,	• (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
, — ·	copies of the priority docum	nents have been receive	ed.				
	copies of the priority docum						
	• •		been received in this Nationa	l Stage			
	on from the International Bu			Ü			
• •	d detailed Office action for a						
Attachment(s)							
1) Notice of References Cit			erview Summary (PTO-413)				
	Patent Drawing Review (PTO-948) tatement(s) (PTO-1449 or PTO/SB	,	oer No(s)/Mail Date tice of Informal Patent Application (PT	O-152)			
Paper No(s)/Mail Date _			ner:	•			

Application/Control Number: 10/635,998

Art Unit: 3681

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-3, 5, and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by at least Smedley '274 and Bates '350. Smedley shows a clutch calibration apparatus and method with an engagement parameter corresponding to the touch point for the clutch, and an operating parameter corresponding to 40-60% of the engine idle speed. Figure 6 shows a calibration method flow diagram. Bates shows another clutch calibration apparatus and method with an engagement parameter corresponding to IS>0 and an operating parameter corresponding to the touch point (tp) and the approach point (ap). Figure 4 shows a flow diagram for the calibration method.

Claims 1-3, 5, and 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by at least Karlsson et al. '486. Karlsson shows a clutch calibration apparatus and method with an engagement parameter corresponding to (x) and an operating parameter corresponding to T(x). A curve representing a possible relationship between the engagement and operating parameters is found in Figure 3. See also column 2, lines 38-50.

Allowable Subject Matter

Claims 4, 6 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not appear to anticipate nor render obvious the invention of the features of claim 1 in combination with the features of determining an operating parameter by sensing a speed of an output shaft of the transmission, or with the feature of calibrating the engagement control signal by calibrating a current or a voltage, or with the feature of delivering a notification signal upon completion of the calibration procedure.

Claims 12-17 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art does not anticipate nor render obvious the invention of calibration method for a trolling valve as recited in claim 12, including the features of calibrating the clutch to both a full slip and a full engagement condition as well as providing a notification signal, not does the prior art appear to anticipate nor render obvious the invention as recited in claim 13, including the features of an operator interface, a control system in communication with the interface and configured to calibrate a control signal that corresponds to amount of engagement of a clutch, and a trolling valve

operable to receive a signal from the control system to control the amount of engagement of the clutch.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited all show clutch calibration methods.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dirk Wright whose telephone number is 703-308-2160. The examiner can normally be reached on Monday through Friday, 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on 703-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 3681

DW Saturday, October 30, 2004